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3	RECORD OF ORAL HEARING
4	UNITED STATES PATENT AND TRADEMARK OFFICE
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6 7 8	BEFORE THE BOARD OF PATENT APPEALS AND INTERFERENCES
9	Ex parte KEN IIZUKA
11 12 13	Appeal 2009-011136 Application 10/768,088
14 15	Technology Center 2600
16	Oral Hearing Held: March 9, 2010
17	<u></u>
18	
19 20 21	Before CARLA M. KRIVAK, ELENI MANTIS MERCADER, and CARL W. WHITEHEAD, JR., Administrative Patent Judges.
22	ON BEHALF OF THE APPELLANTS:
23	
24 25 26 27 28	EDWARD TRACY, JR., ESQ. Oblon, Spivak, McClelland, Maier and Neustadt, LLP 1940 Duke Street Alexandria, Virginia 22314

The above-entitled matter came on for hearing on Tuesday,
March 9, 2010, commencing at 2:27 p.m., at the U.S. Patent and Trademark
Office, 600 Dulany Street, Alexandria, Virginia, before Jan M. Jablonsky,
Notary Public.
JUDGE KRIVAK: Mr. Tracy, do you have a card to give to the
court reporter, please?
MR. TRACY, JR.: Let me check. No, sorry. I don't.
JUDGE KRIVAK: If you could just spell your name then for
him.
MR. TRACY, JR.: Sure.
JUDGE KRIVAK: And do you go by Junior?
MR. TRACY, JR.: Yes. You can include that if you like.
Good afternoon.
JUDGE KRIVAK: Good afternoon. You may start.
MR. TRACY, JR.: The main issue is the independent claims
have been rejected as anticipated by the Wendt reference. And certainly
we're going to argue today that the Wendt reference does not teach or
suggest all the features well, it doesn't teach all the features within the four $$
corners of the reference in the detail that's provided in the claim.
The Wendt reference solves a different problem than the
claimed invention. The Wendt reference is a detector for a watermark,
where the watermark is a specific kind of watermark as described at, for
example, paragraphs 39 and 40 of Wendt, of the publication. And they
pre-select a watermark that has two portions. One is a portion that can be
easily recognized and the other portion has data in it. And because they
already know what the sort of, the portion to be recognized looks like, the

process of Wendt, which is, I think, described best in paragraphs 49 and 50, 1 2 is they look for the first recognizable portion, determine correction 3 information based on -- for that portion by comparing that first portion with 4 something that's in memory. And then they read the second portion using 5 that information that they get. 6 JUDGE KRIVAK: Okay. 7 MR. TRACY, JR.: So it's a simpler process than the claimed 8 invention. The claimed invention is intended to be used much more broadly, trying to recognize images such as fingerprints, as described in the 9 10 specification. 11 JUDGE KRIVAK: Okav. 12 MR. TRACY, JR.: And then -- and so what the invention does 13 is it first -- it has a first and a second image. Then it performs a Fourier 14 transform and a log-polar coordinate transform on both, and based on that it 15 generates correction information. It then corrects the first image based on that information and compares the corrected first image to the second image 16 17 to determine if they match. 18 JUDGE WHITEHEAD, JR.: So your second image would be 19 like the original image --20 MR. TRACY, JR.: Right --21 JUDGE WHITEHEAD, JR: -- that you're trying to correct the 22. first image to. 23 MR. TRACY, JR.: Right. Or the first image could be a fingerprint that the police have found, and the second images could be 24 25 fingerprints in a database to be compared against. So it's not necessarily

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1	directly related the way that Wendt knows basically ahead of time what
2	should be there.
3	JUDGE WHITEHEAD, JR.: Okay.
4	JUDGE KRIVAK: What is the correction information, or
5	what do you you say that the first image and second image you're
6	performing a Fourier transform and log-polar transform to the first and
7	second image, and generating correction information of the first image. Is
8	that true? Do you actually prefer perform a Fourier transform and
9	log-polar on both images?
10	MR. TRACY, JR.: Yes.
11	JUDGE KRIVAK: Okay.
12	MR. TRACY, JR.: And that correction information is
13	based well, will allow you to, for example, shrink or expand the first
14	image to be to sort of match what the second image is. For example, if the
15	fingerprints actually match, but the first image, the fingerprint you found is
16	smaller and rotated, you need to make that correction or it won't match the
17	second one.
18	JUDGE KRIVAK: Okay.
19	MR. TRACY, JR.: And
20	JUDGE MANTIS MERCADER: And why do you perform a
21	Fourier transform and log-polar coordinate transform on both of them? Is it
22	sort of like to standardize them, or why do you perform on both the first and
23	the second?
24	MR. TRACY, JR.: Well, for example, the assuming that they
25	actually match, but the first image is a fingerprint that is rotated and shrunk.

You need the information from the second image to know that it's actually

22.

rotated and shrunk. By doing it on both you can generate this correction
 information that will in some ways make the first one as much as possible
 like the second one.

JUDGE KRIVAK: So you are. You're standardizing it, more or less. Or yeah, getting it -- okay.

MR. TRACY, JR.: And then you correct the first image based on that information and then you can compare them.

8 JUDGE KRIVAK: Okay.

MR. TRACY, JR.: Again, what Wendt does is it takes a portion of the first image. It recognizes that because it knows ahead of time what should be there. Then he uses that information to correct the second image, although it's really just reading the second image. It's just taking the data of the second image, which -- for example, it says it could be "Do not copy." Now at times the outstanding actions have been a little bit inconsistent as to what's the first image, what's the second image, what's the correction information. I think the only way that you could possibly -- the only possible correction information is when you take their first image, compare it to what's saved and you get some information that is used to read the second image.

However, if you consider that the correction information, there is no corrected first image. Once that -- what the Examiner is calling the first image, the easily recognizable portion of their watermark is compared to what's stored in memory, it's not used again. It's not corrected and then compared to any other image. By the same token, the information that you're trying to read, which the Examiner referred to as the second image,

1	you get the information from the original comparison, but then you just reach
2	it. You don't make a corrected image out of the
3	JUDGE KRIVAK: You get the image from the could you
4	just repeat what you just said?
5	MR. TRACY, JR.: You take the information that you got from
6	comparing the first image to the stored image and then you simply use that
7	to read out the second image. You don't create a corrected second image.
8	You don't again do any comparison. So
9	JUDGE MANTIS MERCADER: But don't you need to
10	standardize somehow so you can compare it to the standard, like the
11	watermark to a standard or to a reference? So by doing that, aren't you
12	correcting the watermark? Aren't you rotating it in order to be able to
13	compare it?
14	MR. TRACY, JR.: Well, you know, the watermark again is
15	sort of two portions. You take the first portion and compare it to memory
16	and get whatever the adjustment needs to be made. Then with the second
17	portion, you're using that to just read the information out of the second
18	portion.
19	JUDGE MANTIS MERCADER: Right. I'm talking about the
20	first portion.
21	MR. TRACY, JR.: Okay.
22	JUDGE MANTIS MERCADER: Isn't the first portion similar
23	to what you're doing, in that you're trying to match it up? The watermark is
24	trying to be, you know, compared to whatever it's the standard or
25	something. So isn't that by itself similar to what you're doing?

1	MR. TRACY, JR.: Well, at times the Examiner has tried to say
2	that that's sort of the maybe the correlation. However, what we're
3	correlating is a corrected first image with the second image. So that initial
4	comparison there is only one comparison in Wendt. At that time there is
5	no correction information. So certainly neither image can be considered a
6	corrected first image. They do that single comparison, determine the
7	differences and use that to read out the second image.
8	JUDGE MANTIS MERCADER: So they do not adapt it in
9	terms of size or rotation in Wendt.
0	MR. TRACY, JR.: They may do that. But again, once they
.1	figure out the rotation and sizing, they just use that to read out the second
2	image.
3	JUDGE KRIVAK: So you're saying even if it is corrected, it's
4	not used to to what, match?
5	MR. TRACY, JR.: It's not used in any comparison.
6	JUDGE KRIVAK: It's not comparing anything. Okay.
7	MR. TRACY, JR.: Because the second image is information
8	that you don't know.
9	JUDGE KRIVAK: And by comparing, you mean matching, in
20	your claim?
21	MR. TRACY, JR.: Right. The last part determining if the
22	corrected first image matches the second image based on the results of the
23	correlation processing.
24	JUDGE KRIVAK: Oh. You do have comparison. Performing
25	correlation comparison.

1	MR. TRACY, JR.: Right performing correlation comparison
2	between the corrected first image and the second image. Then determining
3	if they match.
4	JUDGE KRIVAK: Okay.
5	MR. TRACY, JR.: So essentially I don't think if you hold that
6	the well, if you're trying to interpret that the first comparison is
7	the performing a correlation comparison, that doesn't work because neither
8	image is a corrected image based on correction information. If you try and
9	say that the result of that only comparison is the correction information, you
10	don't then correct anything and compare it to any other image. So again,
11	Wendt is just too simple to really be compared to the present invention, and
12	the reason is in some ways Wendt is starting with these particular
13	watermarks that are, sort of, more predictable than the general images that
14	the present invention is trying to match, for example, like a fingerprint.
15	JUDGE KRIVAK: Okay. Are you finished, or did you have
16	more to say?
17	MR. TRACY, JR.: No. That's I think that's all the issues.
18	And again, it certainly doesn't teach each of those elements in as great a
19	detail as he has claimed in Wendt.
20	JUDGE KRIVAK: Okay. Let me just okay. And nothing to
21	say about the secondary reference, then? All right
22	MR. TRACY, JR.: Well, the that was applied to the
23	dependent claims and we feel that the independent claims are patentable.
24	JUDGE KRIVAK: Yeah. Yes. All right. I don't have any
25	more questions. Do you? No?
26	JUDGE WHITEHEAD, JR.: I'm good.

Application 10/768,088

1 JUDGE KRIVAK: All right. Well, thank you very much.
2 Whereupon, at 2:38 p.m., the proceedings were concluded.
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